

Course Description:

During the first semester students will build fluency with basic math facts, and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones. Lastly, students will demonstrate arrays with repeated addition.

Materials Needed:

32 Counters (pennies, buttons, beans)

Bag of beans

Yellow Highlighter

Module	Activity Type	Title	Objectives	Assessments
1	Lesson	Counting Up and Back to Add and Subtract	<ul style="list-style-type: none"> Use the "count on" and "count back" strategies to add and subtract within 20. Distinguish odd and even numbers. Add and subtract odd and even numbers. Examine math vocabulary (add, subtract, sum, difference, addend). Analyze a number. 	<ul style="list-style-type: none"> Lesson Notes 1 Lesson 1 Synchronous Session Lesson 1 Online Practice Score
	IXL Online Practice	Add One Digit Numbers	<ul style="list-style-type: none"> Add one digit numbers with sums up to 20. 	
	IXL Online Practice	Subtract One Digit Numbers	<ul style="list-style-type: none"> Subtract one digit numbers. Subtract one digit numbers from two digit numbers up to 18. 	

Module	Activity Type	Title	Objectives	Assessments
	IXL Online Practice	Even and Odd	<ul style="list-style-type: none"> Identify even and odd numbers. Count objects and identify if groups are made of an even or odd number of objects. 	
2	Lesson	Using Tens Facts and Doubles to Add and Subtract	<ul style="list-style-type: none"> Use the "tens facts", "doubles facts", and "turn around facts" to add and subtract within 20 Count manipulatives to group them in ones and tens Examine math vocabulary (eleven, twelve, thirteen-nineteen, equation, equal) 	<ul style="list-style-type: none"> Lesson Notes 2 Lesson 2 Synchronous Session Lesson 2 Online Practice Score
	IXL Online Practice	Balanced Equations Addition and Subtraction	<ul style="list-style-type: none"> Balance one-digit addition equations. Balance addition and subtraction equations with digits up to 20. 	
3	Lesson	Using a Problem Solving Strategy and Hundreds Chart	<ul style="list-style-type: none"> Use addition, subtraction, and a hundreds chart to add and subtract within 100. Examine a problem solving strategy. Write number words for groups of 10. 	<ul style="list-style-type: none"> Lesson Notes 3 Lesson 3 Synchronous Session Lesson 3 Online Practice Score
	IXL Online Practice	Hundreds Chart	<ul style="list-style-type: none"> Use the hundreds chart to count and identify numbers. 	
4	Lesson	Using Bundles to Make Numbers to 1000	<ul style="list-style-type: none"> Bundle groups of tens to make hundreds up to nine hundreds. Examine math vocabulary. 	<ul style="list-style-type: none"> Lesson Notes 4 Lesson 4 Synchronous Session Lesson 4 Online Practice Score

Module	Activity Type	Title	Objectives	Assessments
			<ul style="list-style-type: none"> Write the numbers up to 1000 in 10 hundreds charts. Add doubles and doubles plus one. 	
	IXL Online Practice	Adding Doubles	<ul style="list-style-type: none"> Add two numbers that are the same. 	
	IXL Online Practice	Writing Numbers	<ul style="list-style-type: none"> Write numbers up to 1,000 in words. 	
5	Lesson	Skip Count to 1000 and Make Counting Estimations	<ul style="list-style-type: none"> Skip count by 10 to 1000 using the hundreds chart. Examine math vocabulary. Make a counting estimation. 	<ul style="list-style-type: none"> Lesson Notes 5 Lesson 5 Synchronous Session Lesson 5 Online Practice Score
	IXL Online Practice	Skip Counting	<ul style="list-style-type: none"> Skip-count by ones and sequences. 	
	IXL Online Practice	Estimating	<ul style="list-style-type: none"> Estimate numbers and sums to the nearest ten. 	
6	Lesson	Skip Count by 5 and Add and Subtract with the Inverse	<ul style="list-style-type: none"> Skip count by 5 to 1000 using the hundreds chart Make number patterns using skip counting Examine math vocabulary Turn addition facts around to make subtraction facts 	<ul style="list-style-type: none"> Lesson Notes 6 Lesson 6 Synchronous Session Lesson 6 Online Practice Score

Module	Activity Type	Title	Objectives	Assessments
	IXL Online Practice	Skip Counting and Counting Patterns	<ul style="list-style-type: none"> Count using patterns up to 1,000. Solve skip-counting puzzles. 	
7	Lesson	Compare Numbers with Symbols	<ul style="list-style-type: none"> Use the signs $<$, $>$, and $=$ to compare numbers to 100. Examine math vocabulary (greater than, less than, equal to). 	<ul style="list-style-type: none"> Lesson Notes 7 Lesson 7 Synchronous Session Lesson 7 Online Practice Score
	IXL Online Practice	Comparing Numbers	<ul style="list-style-type: none"> Compare numbers up to 100. Put numbers up to 100 in order. Order numbers up to 100 from least to greatest. 	
8	Lesson	Using Place Value Strategy to Add	<ul style="list-style-type: none"> Use the place value strategy to add within 100. Write numbers in expanded notation (decompose). 	<ul style="list-style-type: none"> Lesson Notes 8 Lesson 8 Synchronous Session Lesson 8 Online Practice Score
	IXL Online Practice	Convert From Expanded Form	<ul style="list-style-type: none"> Convert from expanded form to numerical form (up to 100's). 	
9	Lesson	Using Decompose Strategy to Add	<ul style="list-style-type: none"> Use the decomposing into tens strategy to add within 100. 	<ul style="list-style-type: none"> Lesson Notes 9 Lesson 9 Synchronous Session Lesson 9 Online Practice Score

Module	Activity Type	Title	Objectives	Assessments
	IXL Online Practice	Add Multi-Digit Numbers	<ul style="list-style-type: none"> Add a two-digit number to a one-digit number. 	
10	Lesson	Using Commutative Property to Add	<ul style="list-style-type: none"> Use the commutative property to add within 100. 	<ul style="list-style-type: none"> Lesson Notes 10 Lesson 10 Synchronous Session Lesson 10 Online Practice Score
	IXL Online Practice	Addition Equations	<ul style="list-style-type: none"> Decide whether an addition statement is true or false. 	
11	Lesson	Using the Place Value Strategy to Compare Three Digit Numbers	<ul style="list-style-type: none"> Use the place value strategy to compare numbers. Communicate the role of zero in numbers. 	<ul style="list-style-type: none"> Lesson Notes 11 Lesson 11 Synchronous Session Lesson 11 Online Practice Score
	IXL Online Practice	Comparing Numbers	<ul style="list-style-type: none"> Compare numbers up to 1,000. Put numbers up to 1,000 in order. Order numbers up to 1,000 from least to greatest. 	
	IXL Online Practice	Solve Inequalities	<ul style="list-style-type: none"> Solve inequalities using addition and subtraction shortcuts. 	
12	Lesson	Expressing Tens and Adding Two Digit Numbers	<ul style="list-style-type: none"> Express tens as a three-digit number. Use the place value strategy to add four two-digit numbers. 	<ul style="list-style-type: none"> Lesson Notes 12 Lesson 12 Synchronous Session Lesson 12 Online Practice Score
	IXL Online Practice	Add Two-Digit Numbers	<ul style="list-style-type: none"> Add three or more two-digit numbers. 	

Module	Activity Type	Title	Objectives	Assessments
13	Lesson	Using the Associative Property	<ul style="list-style-type: none"> Use the associative property to make equal equations. 	<ul style="list-style-type: none"> Lesson Notes 13 Lesson 13 Synchronous Session Lesson 13 Online Practice Score
	IXL Online Practice	Write Addition Sentences to Describe Pictures	<ul style="list-style-type: none"> Write addition sentences with sums up to 20 to describe pictures. 	
14	Lesson	Using the Associative Property to Add and Using the Inverse to Subtract	<ul style="list-style-type: none"> Use the associative property to add two-digit numbers. Use the inverse to subtract. 	<ul style="list-style-type: none"> Lesson Notes 14 Lesson 14 Synchronous Session Lesson 14 Online Practice Score
	IXL Online Practice	Associative Property	<ul style="list-style-type: none"> Balance addition equations using the associative property. Regroup tens and ones. 	
15	Lesson	Using Manipulatives to Add and Completing Two-Step Word Problems	<ul style="list-style-type: none"> Use manipulatives and the hundreds chart to add and subtract within 1,000, Complete two-step word problems, 	<ul style="list-style-type: none"> Lesson Notes 15 Lesson 15 Synchronous Session Lesson 15 Online Practice Score
	IXL Online Practice	Two-Step Word Problems	<ul style="list-style-type: none"> Solve word problems involving adding three or more one-digit numbers. Solve word problems involving adding three or more two-digit numbers. 	
16	Lesson	Describing Numbers with Arrays	<ul style="list-style-type: none"> Identify numbers on a hundreds chart up to 25 that can be described with arrays, 	<ul style="list-style-type: none"> Lesson Notes 16 Lesson 16 Synchronous Session Lesson 16 Online Practice Score

Module	Activity Type	Title	Objectives	Assessments
	IXL Online Practice	Addition in Arrays	<ul style="list-style-type: none"> Identify repeated addition in arrays of sums up to 25. Write addition sentences for arrays with sums up to 25. 	
17	Lesson	Using the Hundreds Chart to Add Tens and Repeating Addition	<ul style="list-style-type: none"> Use a hundreds chart to add and subtract. Repeat addition to express arrays. 	<ul style="list-style-type: none"> Lesson Notes 17 Lesson 17 Synchronous Session Lesson 17 Online Practice Score
	IXL Online Practice	Add and Subtract Multiples of 100	<ul style="list-style-type: none"> Add and subtract multiples of 100. 	
18	Lesson	Make a Video to Explain Math Strategies	<ul style="list-style-type: none"> Mentally add and subtract 10 or 100 to any number up to 1,000. Explain addition and subtraction strategies verbally by making a teaching video. 	<ul style="list-style-type: none"> Lesson Notes 18 Lesson 18 Synchronous Session Lesson 18 Online Practice Score
	IXL Online Practice	Counting Patterns	<ul style="list-style-type: none"> Count using patterns up to 1,000. 	